fins yellow. After preservation, dorsa pale brown, flank pale yellow, and fins remain yellow.

Table 2: Habitat features of four streams

Distribution: Irravadi river (Myanmar); Poonpun river, Patna, Ganga, Brahmaputra drainage, Mahanadi river (Menon 1999), Mondai stream in Maharashtra (Arunachalam *et al.* 1999), Manjal stream in Kerala; (Gaganachukki bluff) Sivasamudram (Gaganachukki bluff) in Karnataka, Bhavani (Pillur) and Moyar rivers in Tamil Nadu.

Remarks: *Salmostoma sardinella* prefers closed riparian cover except in Sivasamudram Falls; the habitat parameters are given in Table 2. Though the extension range covers Tamil Nadu, Kerala and Karnataka parts of the Western Ghats, the distribution of *Salmostoma sardinella* is still confined to the tributaries of Cauvery basin originating from these three states.

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Parameters	Manjal	Sivasumdram	Gugalthurai (Moyar)	Pillur (Bhavani)
Riparian cover (%)	60	Open	30	41.5
Mean with (m)	9.8	200	19.4	63.46
Depth (cm)	56.5	130	54.6	62
Flow (m/sec.)	0.22	0.64	0.06	0.44
Bedrock (%)	15	90	20	10
Boulders (%)	45	5	60	5
Cobbles (%)	12.5	5	10	10
Gravel (%)	22.5	-	6	-
Sand (%)	2.5	-	4	72.5
Leaf litter (%)	2.5	-	-	2.5

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17. ON A RECORD OF A YOUNG TERATOID CARCHARHINUS HEMIODON

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The 'vulnerable' *Carcharhinus hemiodon* (Compagno *et al.* 2003) is one of the 30 species of Family Carcharhinidae (Class: Elasmobranchii, Order: Carcharhiniformes). Commonly called the Pondicherry Shark, and locally 'Palsura', it is distributed in the Indo-West Pacific: Gulf of Oman to Pakistan, India, Sri Lanka and scattered localities in the eastern Indian Ocean and western Pacific Ocean. It attains

a maximum size of up to 200 cm total length, and is viviparous and harmless. Carnivorous in nature it preferably feeds on small fishes, crustaceans and cephalopods (Compagno and Niem 1998). It fetches high commercial and market value due to its tasty flesh and oil content.

C. hemiodon (length 1.45 m and weight 3.5 kg) was caught during September 2004 using trawl net from the coastal



Fig.1: C. hemiodon ventral side

region of Kanyakumari region (Tamil Nadu, India). When the fish was dissected for research purpose we found four young ones inside the uterus, along with placenta. Among the four young ones, three were normal (length 25-27 cm and weight 150-200 gm), and one was abnormal, with two heads (bifurcated head) and a single body. The total length of the teratoid individual was 20.6 cm on the right side and 20.0 cm on the left side of the head regions and weight was 104.3 gm. Morphologically when the neural fold deviated during the early development it formed two heads with a single body (Fig. 1). The deformed individual had a separate placenta connected to the uterus. There was no morphometric and meristic difference between the normal and abnormal individual except the teratoid trait. The right and left head measurements were 5.5 cm and 4.8 cm respectively. It was observed that it possessed only one pair of pectoral fins (one behind each head), on the ventral side, and two dorsal fins (one behind each head) instead of a single dorsal fin. This abnormal individual showed an underdeveloped snout and mouthparts on one head (left head) while the other head, had its mouthparts normally developed. Since the specimen was rare it was not dissected for further study and was preserved in 4% formalin, and kept in our department museum.

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18. NOTES ON THE BEHAVIOUR OF SOME DUNG BEETLES IN AND AROUND BANGALORE¹

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On the basis of dung utilization behaviour Heinrich and Bartholomew (1979) classify Coprophagous beetles into three groups: (i) those that feed and breed in dung pats (endocoprids) (ii) those that tunnel into soil, pack dung to subsequently feed and breed in it (paracoprids) and (iii) those that roll dung away from the dung pat which is further used for both feeding as well as breeding (telecoprids). Hitherto unknown details of dung utilization in two dung buriers, namely *Heliocopris bucephalus* (Fabricius) and *Onthophagus duporti* Boucomont, as well astwo dung rollers, namely *Scarabaeus* (*Khepher*) *sanctus* (Fabricius) and *Sisyphus hirtus* Weidemann, are detailed below.